

Title (en)

Device, method and computer program for estimating a transfer function and corresponding noise suppressing apparatus

Title (de)

Vorrichtung, Verfahren und Computerprogramm zur Schätzung einer Übertragungsfunktion und entsprechende Rauschunterdrückungsvorrichtung

Title (fr)

Dispositif, procédé et programme d'ordinateur pour l'évaluation d'une fonction de transfert et appareil de suppression de bruit correspondant

Publication

EP 2149875 B1 20140507 (EN)

Application

EP 09159108 A 20090429

Priority

JP 2008196943 A 20080730

Abstract (en)

[origin: EP2149875A1] There are provided a transfer function estimating device that accurately estimates a transfer function of a sound from a given sound source to a listening position, a noise suppressing apparatus equipped with the transfer function estimating device, and a transfer function estimating method by the transfer function estimating device. A arithmetic processing module (2) obtains transfer functions at error microphones (8a,9a) based on tone signals and audio signals (5b) obtained by the error microphones (8a,9a) receiving a sound outputted from a sound source loud speaker (6a). A transform matrix table (5a) has the transfer functions at the error microphones (8a,9a) and a transform matrix for converting this transfer functions into given transfer functions registered therein. The arithmetic processing module (2) reads out a corresponding transform matrix from the transform matrix table (5a) based on the calculated transfer functions at the error microphones (8a,9a), and estimates transfer functions at actual listening points.

IPC 8 full level

G10K 11/178 (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP US)

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Cited by

CN102543096A; EP4362009A1; EP2725575A1; US9305541B2

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